

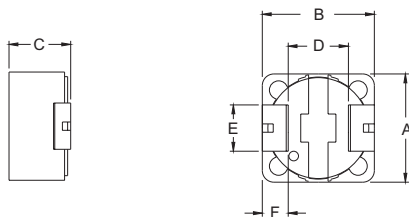
# SMT Power Inductor

## SIQ125R Type

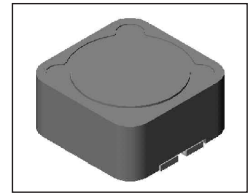
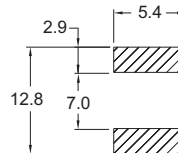
### Features

- RoHS compliant.
- Magnetically shielded.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.

### Mechanical Dimension :



RECOMMENDED PAD PATTERNS



UNIT:mm/inch

A =  $12.2 \pm 0.3 / 0.480 \pm 0.012$

B =  $12.2 \pm 0.3 / 0.480 \pm 0.012$

C =  $6.0 / 0.236$  Max.

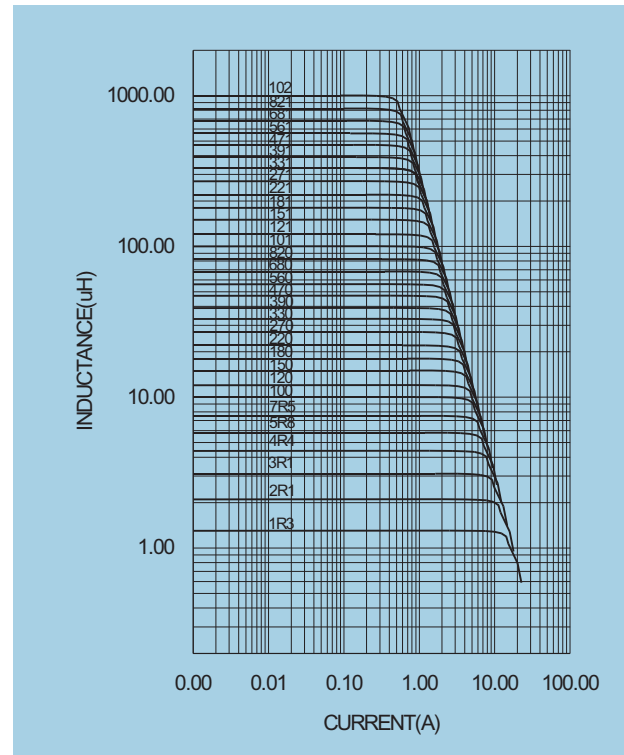
D =  $7.6 \pm 0.3 / 0.299 \pm 0.012$

E =  $5.0 / 0.197$

F =  $2.2 / 0.087$

**Electrical Characteristics :** 25°C, 100KHz, 0.1V for 0.8uH-8.2uH and all of SIQ125RA.  
1KHz, 1V for 10~1000uH.

PART NO.	L <sup>1</sup> (uH)	DCR (mΩ) MAX	I <sub>rated</sub> <sup>2</sup> (A dc)
SIQ125RA - R82	0.82	3.2	16.80
SIQ125R - 1R3	1.30	12.0	8.00
SIQ125RA - 1R3	1.30	4.0	15.00
SIQ125R - 2R1	2.10	1.4	7.00
SIQ125RA - 2R1	2.10	5.3	8.00
SIQ125RA - 2R8	2.80	8.1	7.00
SIQ125R - 3R1	3.10	17.0	6.00
SIQ125RA - 4R0	4.00	10.0	6.00
SIQ125R - 4R4	4.40	20.0	5.00
SIQ125RA - 4R7	4.70	15.0	8.00
SIQ125R - 5R8	5.80	21.0	4.40
SIQ125RA - 5R8	5.80	21.0	7.00
SIQ125R - 7R5	7.50	24.0	4.20
SIQ125RA - 8R2	8.20	23.0	6.00
SIQ125R - 100	10.00	25.0	4.00
SIQ125RA - 100	10.00	25.0	5.00
SIQ125R - 120	12.00	27.0	3.50
SIQ125R - 150	15.00	30.0	3.30
SIQ125RA - 150	15.00	33.0	4.20
SIQ125R - 180	18.00	34.0	3.00
SIQ125RA - 180	18.00	45.0	4.20
SIQ125R - 220	22.00	40.0	2.80
SIQ125RA - 220	22.00	47.0	3.80
SIQ125R - 270	27.00	51.0	2.30
SIQ125R - 330	33.00	57.0	2.10
SIQ125RA - 330	33.00	57.0	3.00
SIQ125R - 390	39.00	68.0	2.00
SIQ125R - 470	47.00	75.0	1.80
SIQ125R - 560	56.00	110.0	1.70
SIQ125R - 680	68.00	120.0	1.50
SIQ125RA - 680	68.00	140.0	2.10
SIQ125R - 820	82.00	140.0	1.40
SIQ125R - 101	100.00	160.0	1.30
SIQ125R - 121	120.00	170.0	1.10
SIQ125R - 151	150.00	230.0	1.00
SIQ125R - 181	180.00	290.0	0.90
SIQ125R - 221	220.00	400.0	0.80
SIQ125R - 271	270.00	460.0	0.75
SIQ125R - 331	330.00	510.0	0.68
SIQ125R - 391	390.00	690.0	0.65
SIQ125R - 471	470.00	770.0	0.58
SIQ125R - 561	560.00	860.0	0.54
SIQ125R - 681	680.00	1200.0	0.48
SIQ125R - 821	820.00	1340.0	0.43
SIQ125R - 102	1000.00	1530.0	0.40



1. Tolerance of inductance : +30%/-20% for 0.82~8.25uH, ±20% for 10~1000uH.
2. I<sub>rated</sub> is the DC current which cause the inductance drop less than 25% of its nominal inductance without current and the surface temperature of the part increase less than 45°C.
3. Operating temperature: -20°C to 105°C (including self-temperature rise).



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